SEQUENCE LISTING

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<120> ALLO- AND AUTO-REACTIVE T-CELL EPITOPES

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<400> 1
Ser Ser Lys Tyr Pro Arg Ser Val Arg Arg Cys Leu Pro Leu Trp
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<400> 2
Cys Leu Pro Leu Trp Ala Leu Thr Leu Glu Ala Ala Leu Ile Leu
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<400> 3
Ala Ala Leu Ile Leu Leu Phe Tyr Phe Phe Thr His Tyr Asp Ala
1 5 10 15

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<400> 4
Thr His Tyr Asp Ala Ser Leu Glu Asp Gln Lys Gly Leu Val Ala
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<400> 5
Lys Gly Leu Val Ala Ser Tyr Gln Val Gly Gln Asp Leu Thr Val
1 5 10 15

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Gln Asp Leu Thr Val Met Ala Ala Leu Gly Leu Gly Phe Leu Thr
1 5 10 15

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<400> 7
Leu Gly Phe Leu Thr Ser Asn Phe Arg Arg His Ser Trp Ser Ser
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His Ser Trp Ser Ser Val Ala Phe Asn Leu Phe Met Leu Ala Leu
1 5 10 15

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<400> 9
Phe Met Leu Ala Leu Gly Val Gln Trp Ala Ile Leu Leu Asp Gly
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Ile Leu Leu Asp Gly Phe Leu Ser Gln Phe Pro Pro Gly Lys Val
1 5 10 15

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Pro Pro Gly Lys Val Val Ile Thr Leu Phe Ser Ile Arg Leu Ala
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<400> 12
Ser Ile Arg Leu Ala Thr Met Ser Ala Met Ser Val Leu Ile Ser
1 5 10 15

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Ser Val Leu Ile Ser Ala Gly Ala Val Leu Gly Lys Val Asn Leu
1 5 10 15

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Gly Lys Val Asn Leu Ala Gln Leu Val Val Met Val Leu Val Glu
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Met Val Leu Val Glu Val Thr Ala Leu Gly Thr Leu Arg Met Val
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Thr Leu Arg Met Val Ile Ser Asn Ile Phe Asn Thr Asp Tyr His
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<400> 17
Asn Thr Asp Tyr His Met Asn Leu Arg His Phe Tyr Val Phe Ala
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Phe Tyr Val Phe Ala Ala Tyr Phe Gly Leu Thr Val Ala Trp Cys
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Thr Val Ala Trp Cys Leu Pro Lys Pro Leu Pro Lys Gly Thr Glu
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Pro Lys Gly Thr Glu Asp Asn Asp Gln Arg Ala Thr Ile Pro Ser
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Ala Thr Ile Pro Ser Leu Ser Ala Met Leu Gly Ala Leu Phe Leu
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Gly Ala Leu Phe Leu Trp Met Phe Trp Pro Ser Val Asn Ser Pro
1 5 10 15

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Ser Val Asn Ser Pro Leu Leu Arg Ser Pro Ile Gln Arg Lys Asn
1 5 10 15

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<400> 24
Ile Gln Arg Lys Asn Ala Met Phe Asn Thr Tyr Tyr Ala Leu Ala
1 5 10 15

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<400> 25
Tyr Tyr Ala Leu Ala Val Ser Val Val Thr Ala Ile Ser Gly Ser
1 5 10 15

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<400> 26
Ala Ile Ser Gly Ser Ser Leu Ala His Pro Gln Arg Lys Ile Ser
1 5 10 15

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<400> 27

Gln Arg Lys Ile Ser Met Thr Tyr Val His Ser Ala Val Leu Ala
1 5 10 15

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<400> 28
Ser Ala Val Leu Ala Gly Gly Val Ala Val Gly Thr Ser Cys His
1 5 10 15

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<400> 29
Gly Thr Ser Cys His Leu Ile Pro Ser Pro Trp Leu Ala Met Val
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<400> 30
Trp Leu Ala Met Val Leu Gly Leu Val Ala Gly Leu Ile Ser Ile
1 5 10 15

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<223> RhCE (R2 CE) Residues 302-316

<400> 31
Gly Leu Ile Ser Ile Gly Gly Ala Lys Cys Leu Pro Val Cys Cys
1 5 10 15

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<400> 32
Leu Pro Val Cys Cys Asn Arg Val Leu Gly Ile His His Ile Ser
1 5 10 15

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<400> 33
Ile His His Ile Ser Val Met His Ser Ile Phe Ser Leu Leu Gly
1 5 10 15

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Phe Ser Leu Leu Gly Leu Leu Gly Glu Ile Thr Tyr Ile Val Leu
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<223> RhCE (R2 CE) Residues 342-356

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Thr Tyr Ile Val Leu Leu Val Leu His Thr Val Trp Asn Gly Asn
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Val Trp Asn Gly Asn Gly Met Ile Gly Phe Gln Val Leu Leu Ser
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<400> 37
Gln Val Leu Leu Ser Ile Gly Glu Leu Ser Leu Ala Ile Val Ile
1 5 10 15

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<400> 38
Leu Ala Ile Val Ile Ala Leu Thr Ser Gly Leu Leu Thr Gly Leu
1 5 10 15

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<400> 39
Leu Leu Thr Gly Leu Leu Leu Asn Leu Lys Ile Trp Lys Ala Pro
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<400> 40
Ile Trp Lys Ala Pro His Val Ala Lys Tyr Phe Asp Asp Gln Val
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<400> 41
Phe Asp Asp Gln Val Phe Trp Lys Phe Pro His Leu Ala Val Gly

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Asp Asp Gln Val Phe Trp Lys Phe Pro His Leu Ala Val Gly Phe
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Ser Ser Lys Tyr Pro Arg Ser Val Arg Arg Cys Leu Pro Leu Cys
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<400> 44
Cys Leu Pro Leu Cys Ala Leu Thr Leu Glu Ala Ala Leu Ile Leu
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<400> 45
Gly Ala Leu Phe Leu Trp Met Phe Trp Pro Ser Val Asn Ser Ala
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Ser Val Asn Ser Ala Leu Leu Arg Ser Pro Ile Gln Arg Lys Asn
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Gln Asp Leu Thr Val Met Ala Ala Ile Gly Leu Gly Phe Leu Thr
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Leu Gly Phe Leu Thr Ser Ser Phe Arg Arg His Ser Trp Ser Ser
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<400> 52
Ser Val Leu Ile Ser Val Asp Ala Val Leu Gly Lys Val Asn Leu
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<400> 53
Met Val Leu Val Glu Val Thr Ala Leu Gly Asn Leu Arg Met Val
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<400> 54
Asn Leu Arg Met Val Ile Ser Asn Ile Phe Asn Thr Asp Tyr His
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Asn Thr Asp Tyr His Met Asn Met Met His Ile Tyr Val Phe Ala
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<400> 56
Ile Tyr Val Phe Ala Ala Tyr Phe Gly Leu Ser Val Ala Trp Cys
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Ser Val Ala Trp Cys Leu Pro Lys Pro Leu Pro Glu Gly Thr Glu
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Pro Glu Gly Thr Glu Asp Lys Asp Gln Thr Ala Thr Ile Pro Ser
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<400> 59
Gly Ala Leu Phe Leu Trp Ile Phe Trp Pro Ser Phe Asn Ser Ala
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Ser Phe Asn Ser Ala Leu Leu Arg Ser Pro Ile Glu Arg Lys Asn
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Ile Glu Arg Lys Asn Ala Val Phe Asn Thr Tyr Tyr Ala Val Ala
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Tyr Tyr Ala Val Ala Val Ser Val Val Thr Ala Ile Ser Gly Ser
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Ala Ile Ser Gly Ser Ser Leu Ala His Pro Gln Gly Lys Ile Ser
1 5 10 15

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<400> 64
Gln Gly Lys Ile Ser Lys Thr Tyr Val His Ser Ala Val Leu Ala
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<400> 65
Trp Leu Ala Met Val Leu Gly Leu Val Ala Gly Leu Ile Ser Val
1 5 10 15

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<400> 66
Gly Leu Ile Ser Val Gly Gly Ala Lys Tyr Leu Pro Gly Cys Cys
1 5 10 15

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<400> 67
Leu Pro Gly Cys Cys Asn Arg Val Leu Gly Ile Pro His Ser Ser
1 5 10 15

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<400> 68
Ile Pro His Ser Ser Ile Met Gly Tyr Asn Phe Ser Leu Leu Gly
1 5 10 15

<210> 69
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Phe Ser Leu Leu Gly Leu Leu Gly Glu Ile Ile Tyr Ile Val Leu
1 5 10 15

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<400> 70
Ile Tyr Ile Val Leu Leu Val Leu Asp Thr Val Gly Ala Gly Asn
1 5 10 15

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<400> 71
Val Gly Ala Gly Asn Gly Met Ile Gly Phe Gln Val Leu Leu Ser
1 5 10 15

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<400> 72
Ile Trp Lys Ala Pro His Glu Ala Lys Tyr Phe Asp Asp Gln Val
1 5 10 15

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Arg Ser Val Arg Arg Cys Leu Pro Leu Cys Ala Leu Thr Leu Glu
1 5 10 15

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<400> 74
Trp Met Phe Trp Pro Ser Val Asn Ser Ala Leu Leu Arg Ser Pro
1 5 10 15

<210> 75
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<400> 75
Met Ala Ala Ile Gly Leu Gly Phe Leu Thr Ser Ser Phe Arg Arg
1 5 10 15

<210> 76
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Ser Ser Phe Arg Arg His Ser Trp Ser Ser Val Ala Phe Asn Leu
1 5 10 15

<210> 77
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<400> 77
Phe Leu Ser Gln Phe Pro Ser Gly Lys Val Val Ile Thr Leu Phe
1 5 10 15

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Val Ile Thr Leu Phe Ser Ile Arg Leu Ala Thr Met Ser Ala Leu
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<400> 79
Thr Met Ser Ala Leu Ser Val Leu Ile Ser Val Asp Ala Val Leu
1 5 10 15

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<400> 80
Val Asp Ala Val Leu Gly Lys Val Asn Leu Ala Gln Leu Val Val
1 5 10 15

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Val Thr Ala Leu Gly Asn Leu Arg Met Val Ile Ser Asn Ile Phe
1 5 10 15

<210> 82
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<220>
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<400> 82
Ile Ser Asn Ile Phe Asn Thr Asp Tyr His Met Asn Met Met His
1 5 10 15

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<400> 83
Met Asn Met Met His Ile Tyr Val Phe Ala Ala Tyr Phe Gly Leu
1 5 10 15

<210> 84
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<220>
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<400> 84
Ala Tyr Phe Gly Leu Ser Val Ala Trp Cys Leu Pro Lys Pro Leu
1 5 10 15

<210> 85
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Leu Pro Lys Pro Leu Pro Glu Gly Thr Glu Asp Lys Asp Gln Thr
1 5 10 15

<210> 86
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<400> 86
Asp Lys Asp Gln Thr Ala Thr Ile Pro Ser Leu Ser Ala Met Leu
1 5 10 15

<210> 87
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<400> 87
Leu Ser Ala Met Leu Gly Ala Leu Phe Leu Trp Ile Phe Trp Pro
1 5 10 15

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<400> 88

Trp Ile Phe Trp Pro Ser Phe Asn Ser Ala Leu Leu Arg Ser Pro
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<400> 89
Leu Leu Arg Ser Pro Ile Glu Arg Lys Asn Ala Val Phe Asn Thr
1 5 10 15

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Ala Val Phe Asn Thr Tyr Tyr Ala Val Ala Val Ser Val Val Thr
1 5 10 15

<210> 91
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<223> RhD Residues 257-271

<400> 91
Ser Leu Ala His Pro Gln Gly Lys Ile Ser Lys Thr Tyr Val His
1 5 10 15

<210> 92
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<400> 92
Lys Thr Tyr Val His Ser Ala Val Leu Ala Gly Gly Val Ala Val
1 5 10 15

<210> 93
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<400> 93
Leu Gly Leu Val Ala Gly Leu Ile Ser Val Gly Gly Ala Lys Tyr
1 5 10 15

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<400> 94
Gly Gly Ala Lys Tyr Leu Pro Gly Cys Cys Asn Arg Val Leu Gly
1 5 10 15

<210> 95
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<223> RhD Residues 317-331

<400> 95
Asn Arg Val Leu Gly Ile Pro His Ser Ser Ile Met Gly Tyr Asn
1 5 10 15

<210> 96
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<223> RhD Residues 327-341

<400> 96
Ile Met Gly Tyr Asn Phe Ser Leu Leu Gly Leu Leu Gly Glu Ile
1 5 10 15

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<220>
<223> RhD Residues 337-351

<400> 97
Leu Leu Gly Glu Ile Ile Tyr Ile Val Leu Leu Val Leu Asp Thr
1 5 10 15

<210> 98

<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhD Residues 347-361

<400> 98
Leu Val Leu Asp Thr Val Gly Ala Gly Asn Gly Met Ile Gly Phe
1 5 10 15

<210> 99
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhD Residues 387-401

<400> 99
Leu Leu Asn Leu Lys Ile Trp Lys Ala Pro His Glu Ala Lys Tyr
1 5 10 15

<210> 100
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhD Residues 397-411

<400> 100
His Glu Ala Lys Tyr Phe Asp Asp Gln Val Phe Trp Lys Phe Pro
1 5 10 15

<210> 101
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 1-15

<400> 101
Met Arg Phe Thr Phe Pro Leu Met Ala Ile Val Leu Glu Ile Ala
1 5 10 15

<210> 102
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 11-25

<400> 102
Val Leu Glu Ile Ala Met Ile Val Leu Phe Gly Leu Phe Val Glu

1 5 10 15

<210> 103
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 21-35

<400> 103
Gly Leu Phe Val Glu Tyr Glu Thr Asp Gln Thr Val Leu Glu Gln
1 5 10 15

<210> 104
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 31-45

<400> 104
Thr Val Leu Glu Gln Leu Asn Ile Thr Lys Pro Thr Asp Met Gly
1 5 10 15

<210> 105
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 41-55

<400> 105
Pro Thr Asp Met Gly Ile Phe Phe Glu Leu Tyr Pro Leu Phe Gln
1 5 10 15

<210> 106
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 51-65

<400> 106
Tyr Pro Leu Phe Gln Asp Val His Val Met Ile Phe Val Gly Phe
1 5 10 15

<210> 107
<211> 15
<212> PRT
<213> Homo sapiens

<220>

<223> Rh50 GP Residues 61-75

<400> 107
Ile Phe Val Gly Phe Gly Phe Leu Met Thr Phe Leu Lys Lys Tyr
1 5 10 15

<210> 108
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 71-85

<400> 108
Phe Leu Lys Lys Tyr Gly Phe Ser Ser Val Gly Ile Asn Leu Leu
1 5 10 15

<210> 109
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 81-95

<400> 109
Gly Ile Asn Leu Leu Val Ala Ala Leu Gly Leu Gln Trp Gly Thr
1 5 10 15

<210> 110
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 91-105

<400> 110
Leu Gln Trp Gly Thr Ile Val Gln Gly Ile Leu Gln Ser Gln Gly
1 5 10 15

<210> 111
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 101-115

<400> 111
Leu Gln Ser Gln Gly Gln Lys Phe Asn Ile Gly Ile Lys Asn Met
1 5 10 15

<210> 112
<211> 15

<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 111-125

<400> 112
Gly Ile Lys Asn Met Ile Asn Ala Asp Phe Ser Ala Ala Thr Val
1 5 10 15

<210> 113
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 121-135

<400> 113
Ser Ala Ala Thr Val Leu Ile Ser Phe Gly Ala Val Leu Gly Lys
1 5 10 15

<210> 114
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 131-145

<400> 114
Ala Val Leu Gly Lys Thr Ser Pro Thr Gln Met Leu Ile Met Thr
1 5 10 15

<210> 115
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 141-155

<400> 115
Met Leu Ile Met Thr Ile Leu Glu Ile Val Phe Phe Ala His Asn
1 5 10 15

<210> 116
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 151-165

<400> 116
Phe Phe Ala His Asn Glu Tyr Leu Val Ser Glu Ile Phe Lys Ala
1 5 10 15

<210> 117
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 161-175

<400> 117
Glu Ile Phe Lys Ala Ser Asp Ile Gly Ala Ser Met Thr Ile His
1 5 10 15

<210> 118
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 171-185

<400> 118
Ser Met Thr Ile His Ala Phe Gly Ala Tyr Phe Gly Leu Ala Val
1 5 10 15

<210> 119
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 181-195

<400> 119
Phe Gly Leu Ala Val Ala Gly Ile Leu Tyr Arg Ser Gly Leu Arg
1 5 10 15

<210> 120
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 191-205

<400> 120
Arg Ser Gly Leu Arg Lys Gly His Glu Asn Glu Glu Ser Ala Tyr
1 5 10 15

<210> 121
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 201-215

<400> 121
Glu Glu Ser Ala Tyr Tyr Ser Asp Leu Phe Ala Met Ile Gly Thr
1 5 10 15

<210> 122
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 211-225

<400> 122
Ala Met Ile Gly Thr Leu Phe Leu Trp Met Phe Trp Pro Ser Phe
1 5 10 15

<210> 123
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 221-235

<400> 123
Phe Trp Pro Ser Phe Asn Ser Ala Ile Ala Glu Pro Gly Asp Lys
1 5 10 15

<210> 124
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 231-245

<400> 124
Glu Pro Gly Asp Lys Gln Cys Arg Ala Ile Val Asp Thr Tyr Phe
1 5 10 15

<210> 125
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 241-255

<400> 125
Val Asp Thr Tyr Phe Ser Leu Ala Ala Cys Val Leu Thr Ala Phe
1 5 10 15

<210> 126
<211> 15
<212> PRT

<213> Homo sapiens

<220>
<223> Rh50 GP Residues 251-265

<400> 126
Val Leu Thr Ala Phe Ala Phe Ser Ser Leu Val Glu His Arg Gly
1 5 10 15

<210> 127
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 261-275

<400> 127
Val Glu His Arg Gly Lys Leu Asn Met Val His Ile Gln Asn Ala
1 5 10 15

<210> 128
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 271-285

<400> 128
His Ile Gln Asn Ala Thr Leu Ala Gly Gly Val Ala Val Gly Thr
1 5 10 15

<210> 129
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 281-295

<400> 129
Val Ala Val Gly Thr Cys Ala Asp Met Ala Ile His Pro Phe Gly
1 5 10 15

<210> 130
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 291-305

<400> 130
Ile His Pro Phe Gly Ser Met Ile Ile Gly Ser Ile Ala Gly Met
1 5 10 15

<210> 131
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 301-315

<400> 131
Ser Ile Ala Gly Met Val Ser Val Leu Gly Tyr Lys Phe Leu Thr
1 5 10 15

<210> 132
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 311-325

<400> 132
Tyr Lys Phe Leu Thr Pro Leu Phe Thr Thr Lys Leu Arg Ile His
1 5 10 15

<210> 133
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 321-335

<400> 133
Lys Leu Arg Ile His Asp Thr Cys Gly Val His Asn Leu His Gly
1 5 10 15

<210> 134
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 331-345

<400> 134
His Asn Leu His Gly Leu Pro Gly Val Val Gly Gly Leu Ala Gly
1 5 10 15

<210> 135
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 341-355

<400> 135
Gly Gly Leu Ala Gly Ile Val Ala Val Ala Met Gly Ala Ser Asn
1 5 10 15

<210> 136
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 351-365

<400> 136
Met Gly Ala Ser Asn Thr Ser Met Ala Met Gln Ala Ala Ala Leu
1 5 10 15

<210> 137
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 361-375

<400> 137
Gln Ala Ala Ala Leu Gly Ser Ser Ile Gly Thr Ala Val Val Gly
1 5 10 15

<210> 138
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 371-385

<400> 138
Thr Ala Val Val Gly Gly Leu Met Thr Gly Leu Ile Leu Lys Leu
1 5 10 15

<210> 139
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 381-395

<400> 139
Leu Ile Leu Lys Leu Pro Leu Trp Gly Gln Pro Ser Asp Gln Asn
1 5 10 15

<210> 140
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 391-405

<400> 140
Pro Ser Asp Gln Asn Cys Tyr Asp Asp Ser Val Tyr Trp Lys Val
1 5 10 15

<210> 141
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 395-409

<400> 141
Asn Cys Tyr Asp Asp Ser Val Tyr Trp Lys Val Pro Lys Thr Arg
1 5 10 15

<210> 142
<211> 16
<212> PRT
<213> Homo sapiens

<220>
<223> BR

<400> 142
Ser Lys Tyr Pro Asn Cys Ala Tyr Lys Thr Thr Gln Ala Asn Lys His
1 5 10 15

<210> 143
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> AV2

<400> 143
Thr Ile Pro Glu Gln Ser Phe Gln Gly Ser Pro Ser Ala Asp Thr
1 5 10 15

<210> 144
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> AV4

<400> 144
Thr Val Lys Ala Asp Phe Glu Phe Ser Ser Ala Pro Ala Pro Asp
1 5 10 15

<210> 145
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> AV6

<400> 145
Thr Val Glu Glu Arg Gln Gln Phe Gly Glu Leu Pro Val Ser Glu
1 5 10 15

<210> 146
<211> 16
<212> PRT
<213> Homo sapiens

<220>
<223> P23

<400> 146
Glu Leu Lys Ile Ile Ser Arg Cys Gln Val Cys Met Lys Lys Arg His
1 5 10 15

<210> 147
<211> 13
<212> PRT
<213> Homo sapiens

<220>
<223> HA

<400> 147
Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr
1 5 10

<210> 148
<211> 417
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE Residues 111-125

<400> 148
Met Ser Ser Lys Tyr Pro Arg Ser Val Arg Arg Cys Leu Pro Leu Cys
1 5 10 15

Ala Leu Thr Leu Glu Ala Ala Leu Ile Leu Leu Phe Tyr Phe Phe Thr
20 25 30

His Tyr Asp Ala Ser Leu Glu Asp Gln Lys Gly Leu Val Ala Ser Tyr
35 40 45

Gln Val Gly Gln Asp Leu Thr Val Met Ala Ala Ile Gly Leu Gly Phe
50 55 60

Leu Thr Ser Ser Phe Arg Arg His Ser Trp Ser Ser Val Ala Phe Asn

```
65                  70                  75                  80

Leu Phe Met Leu Ala Leu Gly Val Gln Trp Ala Ile Leu Leu Asp Gly
                85                  90                  95

Phe Leu Ser Gln Phe Pro Ser Gly Lys Val Val Ile Thr Leu Phe Ser
            100                 105                 110

Ile Arg Leu Ala Thr Met Ser Ala Met Ser Val Leu Ile Ser Ala Gly
        115                 120                 125

Ala Val Leu Gly Lys Val Asn Leu Ala Gln Leu Val Val Met Val Leu
    130                 135                 140

Val Glu Val Thr Ala Leu Gly Thr Leu Arg Met Val Ile Ser Asn Ile
145                 150                 155                 160

Phe Asn Thr Asp Tyr His Met Asn Leu Arg His Phe Tyr Val Phe Ala
                165                 170                 175

Ala Tyr Phe Gly Leu Thr Val Ala Trp Cys Leu Pro Lys Pro Leu Pro
            180                 185                 190

Lys Gly Thr Glu Asp Asn Asp Gln Arg Ala Thr Ile Pro Ser Leu Ser
        195                 200                 205

Ala Met Leu Gly Ala Leu Phe Leu Trp Met Phe Trp Pro Ser Val Asn
    210                 215                 220

Ser Pro Leu Leu Arg Ser Pro Ile Gln Arg Lys Asn Ala Met Phe Asn
225                 230                 235                 240

Thr Tyr Tyr Ala Leu Ala Val Ser Val Val Thr Ala Ile Ser Gly Ser
                245                 250                 255

Ser Leu Ala His Pro Gln Arg Lys Ile Ser Met Thr Tyr Val His Ser
            260                 265                 270

Ala Val Leu Ala Gly Gly Val Ala Val Gly Thr Ser Cys His Leu Ile
        275                 280                 285

Pro Ser Pro Trp Leu Ala Met Val Leu Gly Leu Val Ala Gly Leu Ile
    290                 295                 300

Ser Ile Gly Gly Ala Lys Cys Leu Pro Val Cys Cys Asn Arg Val Leu
305                 310                 315                 320

Gly Ile His His Ile Ser Val Met His Ser Ile Phe Ser Leu Leu Gly
                325                 330                 335

Leu Leu Gly Glu Ile Thr Tyr Ile Val Leu Leu Val Leu His Thr Val
            340                 345                 350

Trp Asn Gly Asn Gly Met Ile Gly Phe Gln Val Leu Leu Ser Ile Gly
        355                 360                 365

Glu Leu Ser Leu Ala Ile Val Ile Ala Leu Thr Ser Gly Leu Leu Thr
    370                 375                 380

Gly Leu Leu Leu Asn Leu Lys Ile Trp Lys Ala Pro His Val Ala Lys
385                 390                 395                 400
```

```
Tyr Phe Asp Asp Gln Val Phe Trp Lys Phe Pro His Leu Ala Val Gly
                405                 410                 415

Phe
```

<210> 149
<211> 417
<212> PRT
<213> Homo sapiens

<220>
<223> RhCe Residues 121-135

<400> 149

```
Met Ser Ser Lys Tyr Pro Arg Ser Val Arg Arg Cys Leu Pro Leu Cys
  1               5                  10                  15

Ala Leu Thr Leu Glu Ala Ala Leu Ile Leu Leu Phe Tyr Phe Phe Thr
             20                  25                  30

His Tyr Asp Ala Ser Leu Glu Asp Gln Lys Gly Leu Val Ala Ser Tyr
         35                  40                  45

Gln Val Gly Gln Asp Leu Thr Val Met Ala Ala Ile Gly Leu Gly Phe
     50                  55                  60

Leu Thr Ser Ser Phe Arg Arg His Ser Trp Ser Ser Val Ala Phe Asn
 65                  70                  75                  80

Leu Phe Met Leu Ala Leu Gly Val Gln Trp Ala Ile Leu Leu Asp Gly
                 85                  90                  95

Phe Leu Ser Gln Phe Pro Ser Gly Lys Val Val Ile Thr Leu Phe Ser
            100                 105                 110

Ile Arg Leu Ala Thr Met Ser Ala Met Ser Val Leu Ile Ser Ala Gly
        115                 120                 125

Ala Val Leu Gly Lys Val Asn Leu Ala Gln Leu Val Val Met Val Leu
    130                 135                 140

Val Glu Val Thr Ala Leu Gly Thr Leu Arg Met Val Ile Ser Asn Ile
145                 150                 155                 160

Phe Asn Thr Asp Tyr His Met Asn Leu Arg His Phe Tyr Val Phe Ala
                165                 170                 175

Ala Tyr Phe Gly Leu Thr Val Ala Trp Cys Leu Pro Lys Pro Leu Pro
            180                 185                 190

Lys Gly Thr Glu Asp Asn Asp Gln Arg Ala Thr Ile Pro Ser Leu Ser
        195                 200                 205

Ala Met Leu Gly Ala Leu Phe Leu Trp Met Phe Trp Pro Ser Val Asn
    210                 215                 220

Ser Ala Leu Leu Arg Ser Pro Ile Gln Arg Lys Asn Ala Met Phe Asn
225                 230                 235                 240
```

```
Thr Tyr Tyr Ala Leu Ala Val Ser Val Val Thr Ala Ile Ser Gly Ser
                245                 250                 255

Ser Leu Ala His Pro Gln Arg Lys Ile Ser Met Thr Tyr Val His Ser
            260                 265                 270

Ala Val Leu Ala Gly Gly Val Ala Val Gly Thr Ser Cys His Leu Ile
        275                 280                 285

Pro Ser Pro Trp Leu Ala Met Val Leu Gly Leu Val Ala Gly Leu Ile
    290                 295                 300

Ser Ile Gly Gly Ala Lys Cys Leu Pro Val Cys Cys Asn Arg Val Leu
305                 310                 315                 320

Gly Ile His His Ile Ser Val Met His Ser Ile Phe Ser Leu Leu Gly
                325                 330                 335

Leu Leu Gly Glu Ile Thr Tyr Ile Val Leu Leu Val Leu His Thr Val
            340                 345                 350

Trp Asn Gly Asn Gly Met Ile Gly Phe Gln Val Leu Leu Ser Ile Gly
        355                 360                 365

Glu Leu Ser Leu Ala Ile Val Ile Ala Leu Thr Ser Gly Leu Leu Thr
    370                 375                 380

Gly Leu Leu Leu Asn Leu Lys Ile Trp Lys Ala Pro His Val Ala Lys
385                 390                 395                 400

Tyr Phe Asp Asp Gln Val Phe Trp Lys Phe Pro His Leu Ala Val Gly
                405                 410                 415

Phe
```

<210> 150
<211> 417
<212> PRT
<213> Homo sapiens

<220>
<223> RhcE Residues 131-145

<400> 150

```
Met Ser Ser Lys Tyr Pro Arg Ser Val Arg Arg Cys Leu Pro Leu Trp
  1               5                  10                  15

Ala Leu Thr Leu Glu Ala Ala Leu Ile Leu Leu Phe Tyr Phe Phe Thr
             20                  25                  30

His Tyr Asp Ala Ser Leu Glu Asp Gln Lys Gly Leu Val Ala Ser Tyr
         35                  40                  45

Gln Val Gly Gln Asp Leu Thr Val Met Ala Ala Leu Gly Leu Gly Phe
     50                  55                  60

Leu Thr Ser Asn Phe Arg Arg His Ser Trp Ser Ser Val Ala Phe Asn
 65                  70                  75                  80

Leu Phe Met Leu Ala Leu Gly Val Gln Trp Ala Ile Leu Leu Asp Gly
```

```
                85                  90                  95

Phe Leu Ser Gln Phe Pro Pro Gly Lys Val Val Ile Thr Leu Phe Ser
            100                 105                 110

Ile Arg Leu Ala Thr Met Ser Ala Met Ser Val Leu Ile Ser Ala Gly
        115                 120                 125

Ala Val Leu Gly Lys Val Asn Leu Ala Gln Leu Val Val Met Val Leu
    130                 135                 140

Val Glu Val Thr Ala Leu Gly Thr Leu Arg Met Val Ile Ser Asn Ile
145                 150                 155                 160

Phe Asn Thr Asp Tyr His Met Asn Leu Arg His Phe Tyr Val Phe Ala
                165                 170                 175

Ala Tyr Phe Gly Leu Thr Val Ala Trp Cys Leu Pro Lys Pro Leu Pro
            180                 185                 190

Lys Gly Thr Glu Asp Asn Asp Gln Arg Ala Thr Ile Pro Ser Leu Ser
        195                 200                 205

Ala Met Leu Gly Ala Leu Phe Leu Trp Met Phe Trp Pro Ser Val Asn
    210                 215                 220

Ser Pro Leu Leu Arg Ser Pro Ile Gln Arg Lys Asn Ala Met Phe Asn
225                 230                 235                 240

Thr Tyr Tyr Ala Leu Ala Val Ser Val Val Thr Ala Ile Ser Gly Ser
                245                 250                 255

Ser Leu Ala His Pro Gln Arg Lys Ile Ser Met Thr Tyr Val His Ser
            260                 265                 270

Ala Val Leu Ala Gly Gly Val Ala Val Gly Thr Ser Cys His Leu Ile
        275                 280                 285

Pro Ser Pro Trp Leu Ala Met Val Leu Gly Leu Val Ala Gly Leu Ile
    290                 295                 300

Ser Ile Gly Gly Ala Lys Cys Leu Pro Val Cys Cys Asn Arg Val Leu
305                 310                 315                 320

Gly Ile His His Ile Ser Val Met His Ser Ile Phe Ser Leu Leu Gly
                325                 330                 335

Leu Leu Gly Glu Ile Thr Tyr Ile Val Leu Leu Val Leu His Thr Val
            340                 345                 350

Trp Asn Gly Asn Gly Met Ile Gly Phe Gln Val Leu Leu Ser Ile Gly
        355                 360                 365

Glu Leu Ser Leu Ala Ile Val Ile Ala Leu Thr Ser Gly Leu Leu Thr
    370                 375                 380

Gly Leu Leu Leu Asn Leu Lys Ile Trp Lys Ala Pro His Val Ala Lys
385                 390                 395                 400

Tyr Phe Asp Asp Gln Val Phe Trp Lys Phe Pro His Leu Ala Val Gly
                405                 410                 415
```

Phe

<210> 151
<211> 417
<212> PRT
<213> Homo sapiens

<220>
<223> RhD Residues 141-155

<400> 151

```
Met Ser Ser Lys Tyr Pro Arg Ser Val Arg Arg Cys Leu Pro Leu Trp
  1               5                  10                  15

Ala Leu Thr Leu Glu Ala Ala Leu Ile Leu Leu Phe Tyr Phe Phe Thr
             20                  25                  30

His Tyr Asp Ala Ser Leu Glu Asp Gln Lys Gly Leu Val Ala Ser Tyr
         35                  40                  45

Gln Val Gly Gln Asp Leu Thr Val Met Ala Ala Ile Gly Leu Gly Phe
     50                  55                  60

Leu Thr Ser Ser Phe Arg Arg His Ser Trp Ser Ser Val Ala Phe Asn
 65                  70                  75                  80

Leu Phe Met Leu Ala Leu Gly Val Gln Trp Ala Ile Leu Leu Asp Gly
                 85                  90                  95

Phe Leu Ser Gln Phe Pro Ser Gly Lys Val Val Ile Thr Leu Phe Ser
            100                 105                 110

Ile Arg Leu Ala Thr Met Ser Ala Leu Ser Val Leu Ile Ser Val Asp
        115                 120                 125

Ala Val Leu Gly Lys Val Asn Leu Ala Gln Leu Val Val Met Val Leu
    130                 135                 140

Val Glu Val Thr Ala Leu Gly Asn Leu Arg Met Val Ile Ser Asn Ile
145                 150                 155                 160

Phe Asn Thr Asp Tyr His Met Asn Met Met His Ile Tyr Val Phe Ala
                165                 170                 175

Ala Tyr Phe Gly Leu Ser Val Ala Trp Cys Leu Pro Lys Pro Leu Pro
            180                 185                 190

Glu Gly Thr Glu Asp Asn Asp Gln Thr Ala Thr Ile Pro Ser Leu Ser
        195                 200                 205

Ala Met Leu Gly Ala Leu Phe Leu Trp Ile Phe Trp Pro Ser Phe Asn
    210                 215                 220

Ser Ala Leu Leu Arg Ser Pro Ile Glu Arg Lys Asn Ala Val Phe Asn
225                 230                 235                 240

Thr Tyr Tyr Ala Val Ala Val Ser Val Val Thr Ala Ile Ser Gly Ser
                245                 250                 255
```

```
Ser Leu Ala His Pro Gln Gly Lys Ile Ser Lys Thr Tyr Val His Ser
            260                 265                 270

Ala Val Leu Ala Gly Gly Val Ala Val Gly Thr Ser Cys His Leu Ile
        275                 280                 285

Pro Ser Pro Trp Leu Ala Met Val Leu Gly Leu Val Ala Gly Leu Ile
    290                 295                 300

Ser Val Gly Gly Ala Lys Tyr Leu Pro Gly Cys Cys Asn Arg Val Leu
305                 310                 315                 320

Gly Ile Pro His Ser Ser Ile Met Gly Tyr Asn Phe Ser Leu Leu Gly
                325                 330                 335

Leu Leu Gly Glu Ile Ile Tyr Ile Val Leu Leu Val Leu Asp Thr Val
            340                 345                 350

Gly Ala Gly Asn Gly Met Ile Gly Phe Gln Val Leu Leu Ser Ile Gly
        355                 360                 365

Glu Leu Ser Leu Ala Ile Val Ile Ala Leu Thr Ser Gly Leu Leu Thr
    370                 375                 380

Gly Leu Leu Leu Asn Leu Lys Ile Trp Lys Ala Pro His Glu Ala Lys
385                 390                 395                 400

Tyr Phe Asp Asp Gln Val Phe Trp Lys Phe Pro His Leu Ala Val Gly
                405                 410                 415

Phe
```

<210> 152
<211> 417
<212> PRT
<213> Homo sapiens

<220>
<223> RhCe Residues 151-165

<400> 152

```
Met Ser Ser Lys Tyr Pro Arg Ser Val Arg Arg Cys Leu Pro Leu Trp
  1               5                  10                  15

Ala Leu Thr Leu Glu Ala Ala Leu Ile Leu Leu Phe Tyr Phe Phe Thr
             20                  25                  30

His Tyr Asp Ala Ser Leu Glu Asp Gln Lys Gly Leu Val Ala Ser Tyr
         35                  40                  45

Gln Val Gly Gln Asp Leu Thr Val Met Ala Ala Leu Gly Leu Gly Phe
     50                  55                  60

Leu Thr Ser Asn Phe Arg Arg His Ser Trp Ser Ser Val Ala Phe Asn
 65                  70                  75                  80

Leu Phe Met Leu Ala Leu Gly Val Gln Trp Ala Ile Leu Leu Asp Gly
                 85                  90                  95

Phe Leu Ser Gln Phe Pro Pro Gly Lys Val Val Ile Thr Leu Phe Ser
```

100 105 110

Ile Arg Leu Ala Thr Met Ser Ala Met Ser Val Leu Ile Ser Ala Gly
115 120 125

Ala Val Leu Gly Lys Val Asn Leu Ala Gln Leu Val Val Met Val Leu
130 135 140

Val Glu Val Thr Ala Leu Gly Thr Leu Arg Met Val Ile Ser Asn Ile
145 150 155 160

Phe Asn Thr Asp Tyr His Met Asn Leu Arg His Phe Tyr Val Phe Ala
165 170 175

Ala Tyr Phe Gly Leu Thr Val Ala Trp Cys Leu Pro Lys Pro Leu Pro
180 185 190

Lys Gly Thr Glu Asp Asn Asp Gln Arg Ala Thr Ile Pro Ser Leu Ser
195 200 205

Ala Met Leu Gly Ala Leu Phe Leu Trp Met Phe Trp Pro Ser Val Asn
210 215 220

Ser Ala Leu Leu Arg Ser Pro Ile Gln Arg Lys Asn Ala Met Phe Asn
225 230 235 240

Thr Tyr Tyr Ala Leu Ala Val Ser Val Val Thr Ala Ile Ser Gly Ser
245 250 255

Ser Leu Ala His Pro Gln Arg Lys Ile Ser Met Thr Tyr Val His Ser
260 265 270

Ala Val Leu Ala Gly Gly Val Ala Val Gly Thr Ser Cys His Leu Ile
275 280 285

Pro Ser Pro Trp Leu Ala Met Val Leu Gly Leu Val Ala Gly Leu Ile
290 295 300

Ser Ile Gly Gly Ala Lys Cys Leu Pro Val Cys Cys Asn Arg Val Leu
305 310 315 320

Gly Ile His His Ile Ser Val Met His Ser Ile Phe Ser Leu Leu Gly
325 330 335

Leu Leu Gly Glu Ile Thr Tyr Ile Val Leu Leu Val Leu His Thr Val
340 345 350

Trp Asn Gly Asn Gly Met Ile Gly Phe Gln Val Leu Leu Ser Ile Gly
355 360 365

Glu Leu Ser Leu Ala Ile Val Ile Ala Leu Thr Ser Gly Leu Leu Thr
370 375 380

Gly Leu Leu Leu Asn Leu Lys Ile Trp Lys Ala Pro His Val Ala Lys
385 390 395 400

Tyr Phe Asp Asp Gln Val Phe Trp Lys Phe Pro His Leu Ala Val Gly
405 410 415

Phe